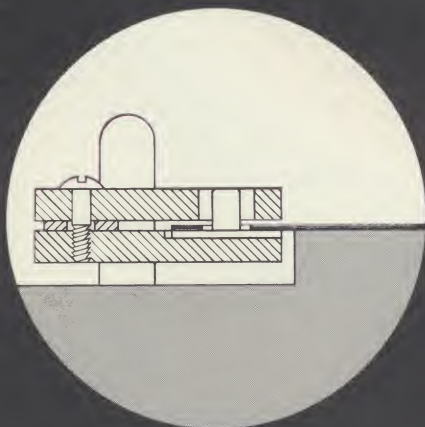
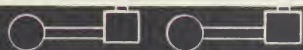
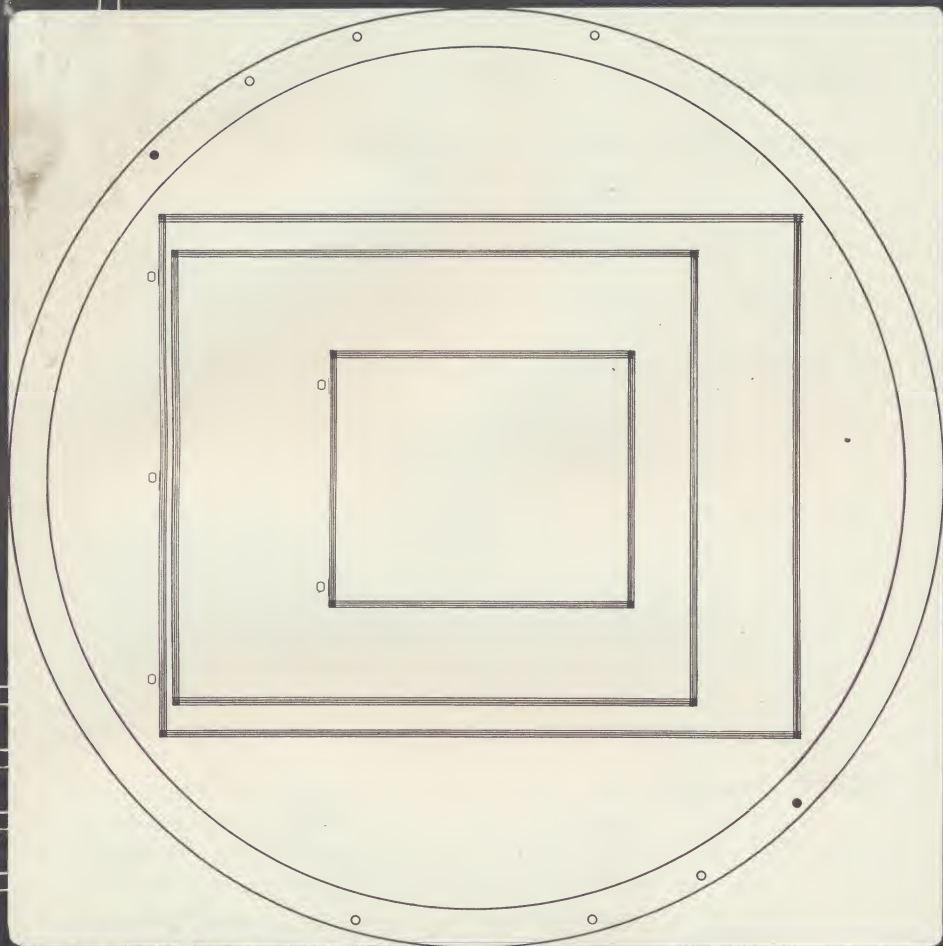




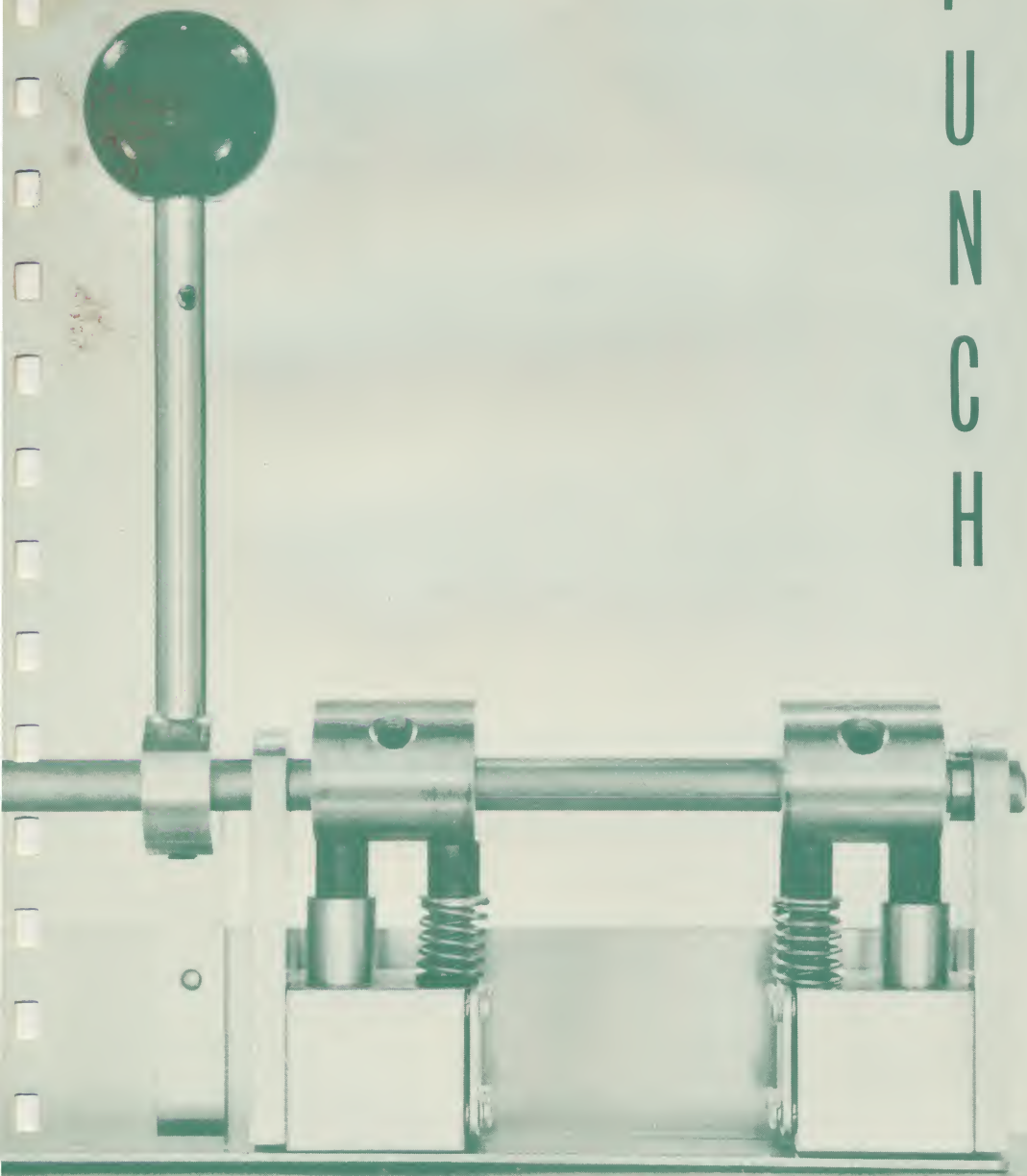
**CIRCULAR  
SCREEN  
VACUUM  
EASEL**

## CIRCULAR SCREEN VACUUM EASEL

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCREEN SIZE    | 25''    28''    31''                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SPECIFICATIONS | Built to order with Eastman type pins and 1/16'' pins, all retractable.<br>Available with two, three and four pins to a set and one, two and three sets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| FILM SIZES     | 4'' x 5'' to 18'' x 20''                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| REQUIREMENTS   | MATRIX FILM PUNCH (Data sheet MATRIX PUNCH)<br>CIRCULAR SCREEN<br>¼ HP VACUUM PUMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| FUNCTION       | The CIRCULAR SCREEN VACUUM EASEL is designed for printing direct screened separations by projection. The screen is indexed at fifteen degree increments. Complete registration is accomplished by retractable pins. Film is held by vacuum with separate valve for each film size. Screen is held by additional vacuum                                                                                                                                                                                                                                                                                                                                                                      |
| SCREEN HOLDER  | The screen holder is unique in design. Two aluminum rings hold the screen between them on four register pins. Elongated holes punched in the screen allow the screen to expand and contract continuously, preventing wrinkles forming in the screen. The four register pins prevent the screen angle from changing. The rings index on dowel pins for the proper screen angles. Once the screen is mounted, it remains in the holder for its entire life. Screen life is improved because of lack of handling and the ease with which it may be used and stored. The design of this screen holder is practicable only because the surface of the vacuum easel is raised. (See illustration) |
| NOTE           | <i>Base and clamps available made to order.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| COST           | \$550.00    to    \$850.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

F I L M

P  
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C  
H



THE MATRIX FILM PUNCH is a precision punch used for films 8x10 and larger where accuracy of registration is essential. This punch can be used in Dye Transfer, lithography, and photoengraving.

Two standard spacings are available. (*sketch*) THE MATRIX FILM PUNCH can be made in any size required with as many holes as needed. If two punches must match, they should be ordered at the same time.

*When films larger than 11 x 14 are used, three or more register pins are recommended.*

HOW IT WORKS

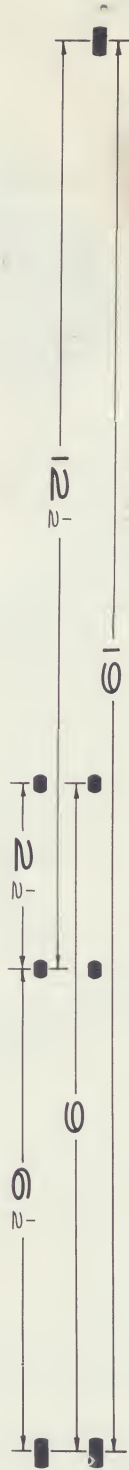
With the film in position, the stripper bar is pressed down by the action of the handle and the film is punched when it is firmly held in place. The punches are withdrawn and the stripper releases the film. For greatest accuracy only one film or plate should be punched at one time.

The punch is supplied mounted on a two inch by one quarter aluminum base and can be fastened wherever convenient. A Masonite table can be supplied. Punches and anvils are hardened and aluminum plates up to .008" can be punched.

Three methods of registration are in common usage and equipment listed below is available from stock or made to suit your requirements. Eastman style pins are used and several different types are available from stock.

- 1. REGISTER STRIPS . . . . refer to data sheet on strips.
- 2. REGISTER BARS . . . . made to order in any form.
- 3. REGISTER BOARDS . . . any size plate glass with pins.

3 HOLE PUNCH \$ 235.00                      4 HOLE PUNCH \$ 274.00





# STAINLESS STEEL REGISTER STRIPS

for use with

CONDIT MATRIX FILM PUNCH

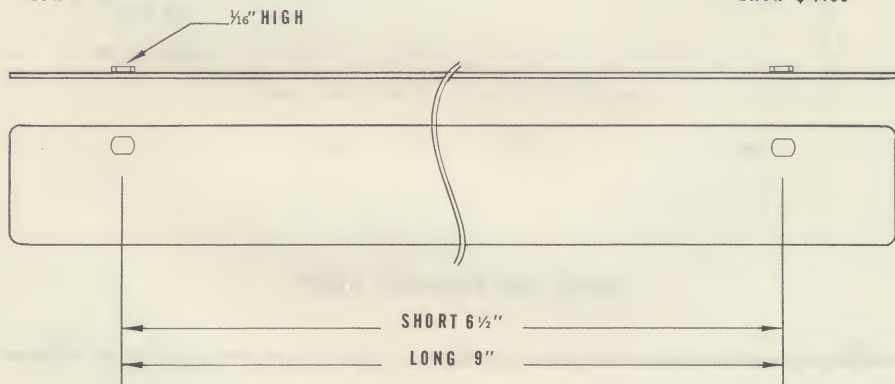
and

EASTMAN MATRIX FILM PUNCH

.015" SPRING TEMPER STAINLESS BASE

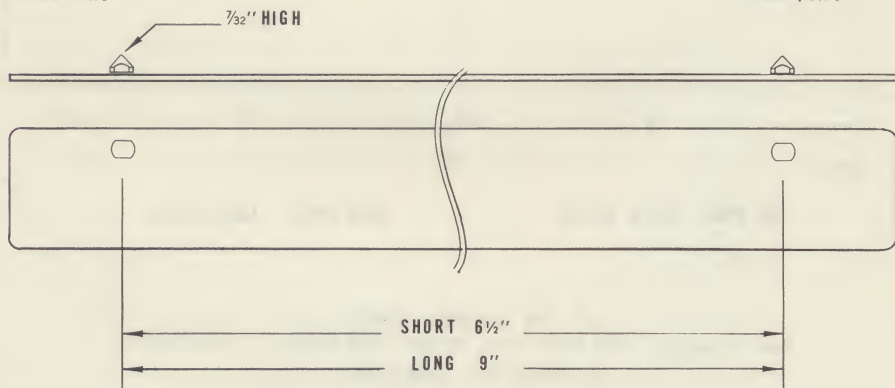
LOW PINS

EACH \$ 4.50

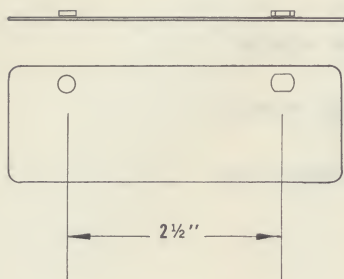


HIGH PINS

EACH \$ 6.75



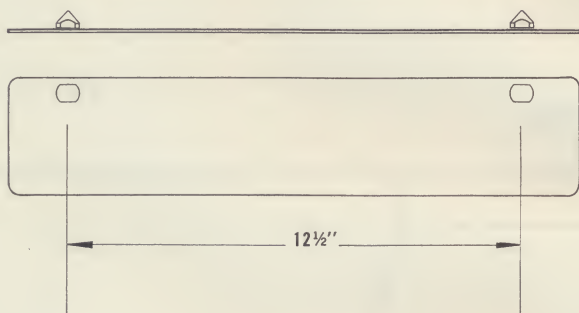
## 2 1/2" SHORT STRIP FOR EASTMAN PUNCH



LOW } EACH  
HIGH } \$8.00

SINGLE PIN EACH \$2.75

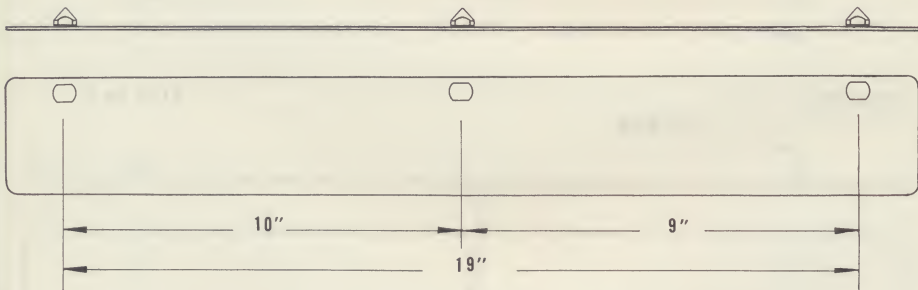
## SPECIAL STRIPS TO MATCH CONDIT MATRIX FILM PUNCH



LOW PINS  
EACH \$5.00

HIGH PINS  
EACH \$7.25

## THREE PIN REGISTER STRIP



LOW PINS EACH \$15.00

HIGH PINS EACH \$15.00

## 1/16" PIN REGISTER STRIPS

Made to order - Give punch serial number with order - \$12.00 each

1/16" SINGLE PIN EACH \$2.50

# PIN GLASS



Registration of films has become essential in many phases of color printing. The PIN GLASS has been made for this purpose and is used with the smaller film sizes. The MASK FILM PUNCH is used in conjunction with the PIN GLASS.

Two holes, one sixteenth inch in size, are punched in the margin of the transparency outside the image area. Exposure is made through the glass while films are positioned on two register pins. PIN GLASSES are furnished as part of several different units and are also furnished separately.

#### NOTES

*Made for films from 35mm to 10" x 12"*

*PIN GLASS is selected 3/16" plate glass*

*Pins can be set in heavier glass on order*

*Glass can be ordered to any dimensions*

*Pins are set to match each punch. Punch serial number must be given when ordering replacement glass.*

*All punches and glasses used in each photo-lab should match. This should be kept in mind when ordering additional punches.*

*A pin setting iron is available for replacing a damaged pin. Heat cement is used and a pin can be replaced with reasonable care.*

COVER GLASSES are available for use with the PIN GLASS. Two holes allow clearance for the pins. This glass is 3/16" and is selected free from bubbles and scratches in the picture area.

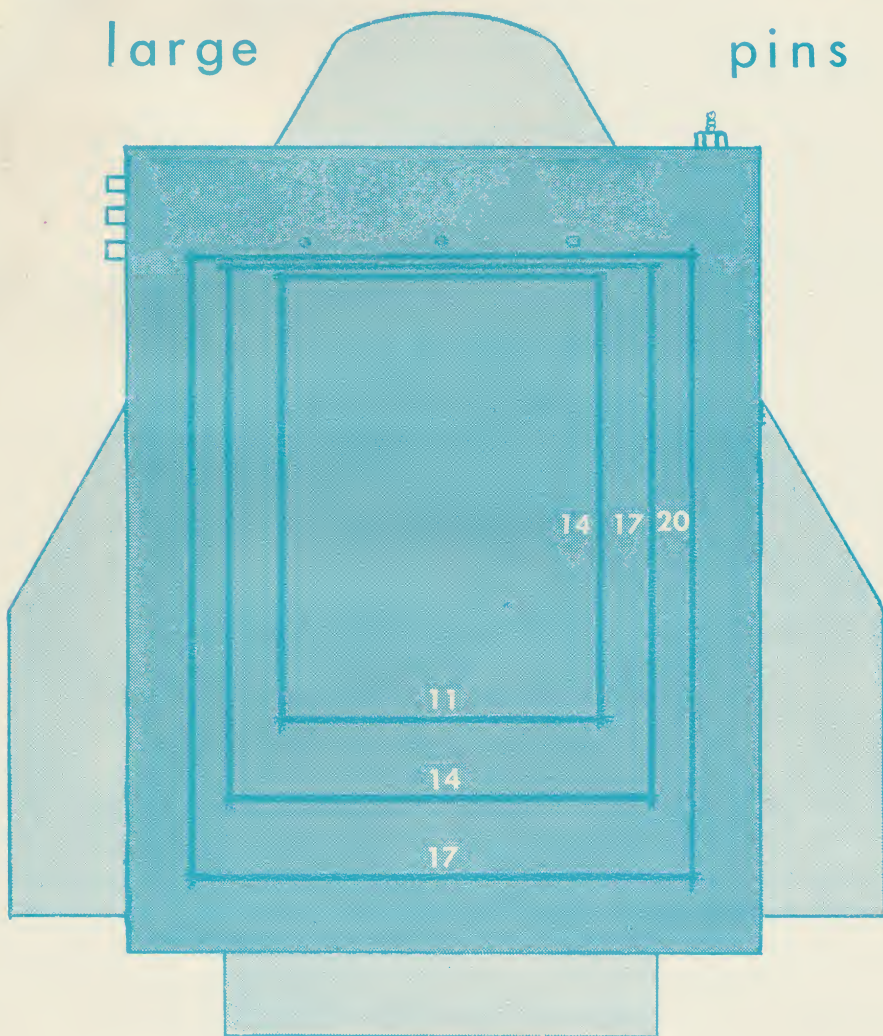
| FILM SIZE        | GLASS SIZE  | COST    |
|------------------|-------------|---------|
| 4" x 5"          | 7" x 9"     | \$14.00 |
| 5" x 7"          | 7" x 9"     | \$14.00 |
| 8" x 10"         | 9" x 11"    | \$18.00 |
| 8" x 10"         | 10" x 12"   | \$18.00 |
| 4" x 5"          | COVER GLASS | \$ 4.00 |
| Pin Setting Iron |             | \$ 3.50 |



# FIXED PIN VACUUM EASEL

large

pins



## VACUUM EASEL CLAMP



## FIXED PIN VACUUM EASEL

## LARGE PINS

|      |                                       |        |
|------|---------------------------------------|--------|
| SIZE | 8 x 10 - 10 x 12 - 11 x 14            | \$115. |
|      | 11 x 14 - 14 x 17 - 16 x 20           | \$135. |
|      | 11 x 14 - 14 x 17 - 16 x 20 - 20 x 24 | \$165. |

SPECIFICATIONS Easels have two register pins and a separate channel and valve for each film size.

*Add \$5.00 for each additional register pin.  
Additional pins for CONDIT MATRIX FILM  
PUNCH only.*

REQUIREMENTS  $\frac{1}{4}$  HP vacuum pump  
Condit MATRIX FILM PUNCH or  
Eastman MATRIX PUNCH

FUNCTION The FIXED PIN VACUUM EASEL is designed to hold a single film on register pins without glass. Several film sizes are used with each easel.

OPERATION Film is punched and placed on the register pins. The proper channel is evacuated to hold the film flat. Exposure is made by projection.

NOTES *When films larger than 11 x 14 are used, three or more register pins are recommended.*

*A clamping base is available for all sizes of vacuum easels. About \$95.00.*



**F I L M   H O L D E R**



## FILM HOLDER

When making camera separations it is often desirable to use registration pins for the transparency. Much masking can be done on these pins and by careful handling, montages can be made providing the camera back also has register pins.

The FILM HOLDER consists of a metal platform with a pin glass and cover glass. This unit will fit in the plate bars on the camera bed. Black anodized finish.

Exposure is made using diffused illumination behind the transparency.

Designed for 8" x 10" transparencies with adequate margin for color patches, gray scale and register marks.

Pin glass is held firmly by top and bottom clamps.

Cover glass is held under light spring tension by four rotating clamps with nylon rollers.

Pin glass has anti-Newton ring surface.

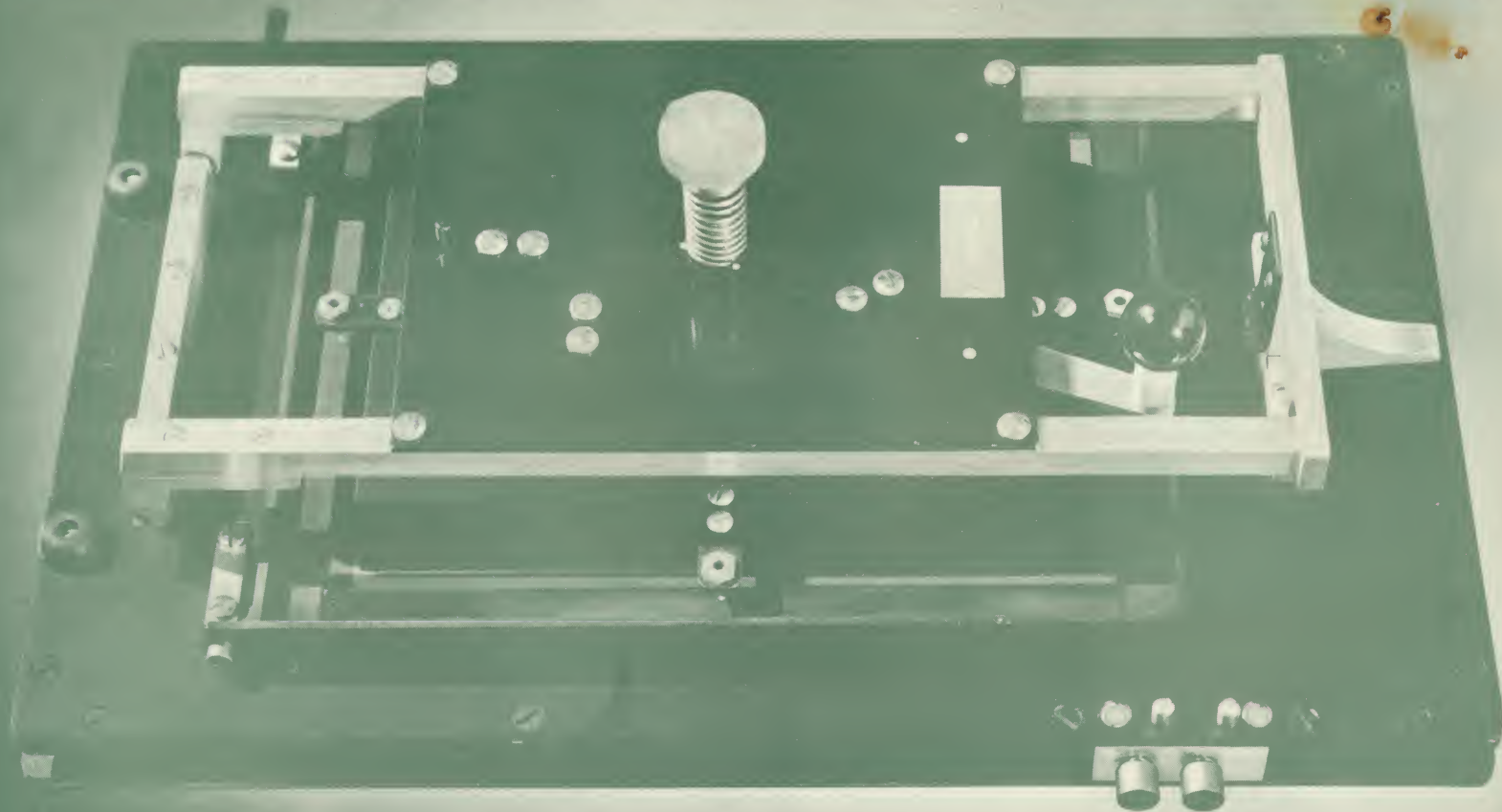
Used with standard FILM PUNCH.

A vacuum pin glass can be used with this holder.

One pin glass and one cover glass is included with each film holder.

|             |          |
|-------------|----------|
| 8" x 10"    | \$170.00 |
| Pin Glass   | \$ 22.50 |
| Cover Glass | \$ 6.00  |





Gasket Vacuum Easel

## GASKET VACUUM EASEL

SIZE 8 x 10

### SPECIFICATIONS

Two vacuum channels  
Two stem valve  
Platen top  
Rubber gasket



### REQUIREMENTS

$\frac{1}{4}$  HP VACUUM PUMP  
Standard FILM PUNCH

USE The GASKET VACUUM EASEL is designed to hold two films of the same size on one set of register pins without glass. One vacuum channel holds the bottom film and the rubber gasket acts as the second channel holding the top film. Not made for three films.

OPERATION A mask is first made by projection onto the vacuum easel and the mask developed. The separation film is placed on the register pins and held by vacuum. The developed mask is placed on the same register pins. The gasket is positioned over both films; the platen locked in place; pressure applied with the platen handle; the air is exhausted from the gasket; handle released; platen unlocked and opened; exposure made. The two films are held tightly together within five seconds.

NOTES *This easel is made for the standard FILM PUNCH or the DIAGONAL FILM PUNCH.*  
*Since the gasket covers all four edges of the film, the image will not be full 8" x 10".*

|      |                              |          |
|------|------------------------------|----------|
| COST | 8" x 10"                     | \$200.00 |
|      | BASE - SPINTITE - TWO CLAMPS | \$ 45.00 |



# MASK REGISTRATION FRAME

4 x 5

5 x 7

8 x 10



The MASK REGISTRATION FRAME consists of the PUNCH, FRAME, and PIN GLASS and is designed for printing contact masks and separations. All parts are carefully made to give exceptional accuracy.

CHECK THESE FEATURES:

OUT OF REGISTER NEGATIVES AND MASKS ARE ELIMINATED.

VISUAL REGISTRATION AND EYE FATIGUE ARE ELIMINATED.

PUNCHED HOLES DO NOT ENTER THE PICTURE AREA.

PUNCHED HOLES ARE ONE SIXTEENTH INCH IN DIAMETER.

REGISTER PINS ARE CEMENTED IN PLATE GLASS.

VARIATION IN LIGHT SOURCE POSSIBLE FRAME CAN BE USED IN ANY POSITION.

PROCEDURE:

Two holes are punched in the margin of the transparency outside the picture area. The film is placed in position on the pin glass. The unexposed mask is punched in the same manner and placed over the same pins. The FRAME is closed and the exposure made normally. Diffused masks can be made with the FRAME following Eastman's suggested method. When masks are developed, they are placed on the pins with the transparency and the separation film punched and exposed as above. All three separations will be in register and can then be projected in register by using a PRECISION NEGATIVE CARRIER using the same holes for registration.

Other punches are available for films from 35mm to 10 x 12. Micro-meter diagonal punches are available and should be used with adjustable pin glasses.

Notes:

*Glass for the 5 x 7 Frame measures 7" x 9"*

*Glass for the 8 x 10 Frame measures 10" x 12"*

*Punch number is needed when ordering replacement glass.*

*A cover glass can be supplied with two clearance holes at the pin positions.*

4 x 5 to 5 x 7 combination  $\sqrt{1.50}$  ~~\$ 47.50~~ extra glass \$ 12.00

8 x 10  $\sqrt{51.00}$  ~~\$ 51.00~~ . . . . . extra glass \$ 18.00